



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Sunshine Windows Manufacturing, Inc.
1745 West 33rd Place
Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "1650" Aluminum Horizontal Sliding Window Non-Impact

APPROVAL DOCUMENT: Drawing No. **HS99-04T**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) 1/4" Tempered Glass", sheets 1 through 3 of 3, prepared by Francisco Hernandez, P.E., dated 8/16/99 with revision on 1/7/03, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** NOA # **99-0909.05** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime Eisen, P.E.**



NOA No 02-1216.07
Expiration Date: March 17, 2008
Approval Date: February 27, 2003
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **HS99-04T**, titled "Series 1650 Aluminum Horizontal Sliding Window (XO) 1/4" Tempered Glass", sheets 1 through 3 of 3, prepared by Francisco Hernandez, P.E., dated 8/16/99 with revision on 1/7/03, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

Submitted under NOA# 99-0909.05

- 2 Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with the manufacturer's marked up design drawings of window w/ 1/4" tempered glass, prepared by Fenestration Testing Laboratory Test Report No. **FTL-2353**, dated June 15, 1999, signed and sealed by Jose D. Mitrani, P.E.

C. CALCULATIONS

Submitted under NOA# 99-0909.05

1. Comparative analysis and anchor calculations dated August 28, 1999, prepared, signed and sealed by Francisco Hernandez, P.E.

D. MATERIAL CERTIFICATIONS

Submitted under NOA# 99-0909.05

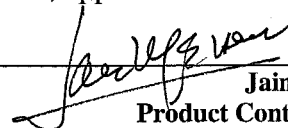
1. Notice of Acceptance No. **97-0527.04** issued to Glasslam Safety-Plus Laminated Glass" dated 09/09/97, expiring on 09/09/2000.
2. Aggregate Certification, dated November 10, 1995, by CSR Rinker Materials for No. 6 coarse mineral aggregate per ASTM D-1863-86 "Standard Specification for Mineral Aggregate Used on Built-Up Roofs".

D. STATEMENTS

1. None

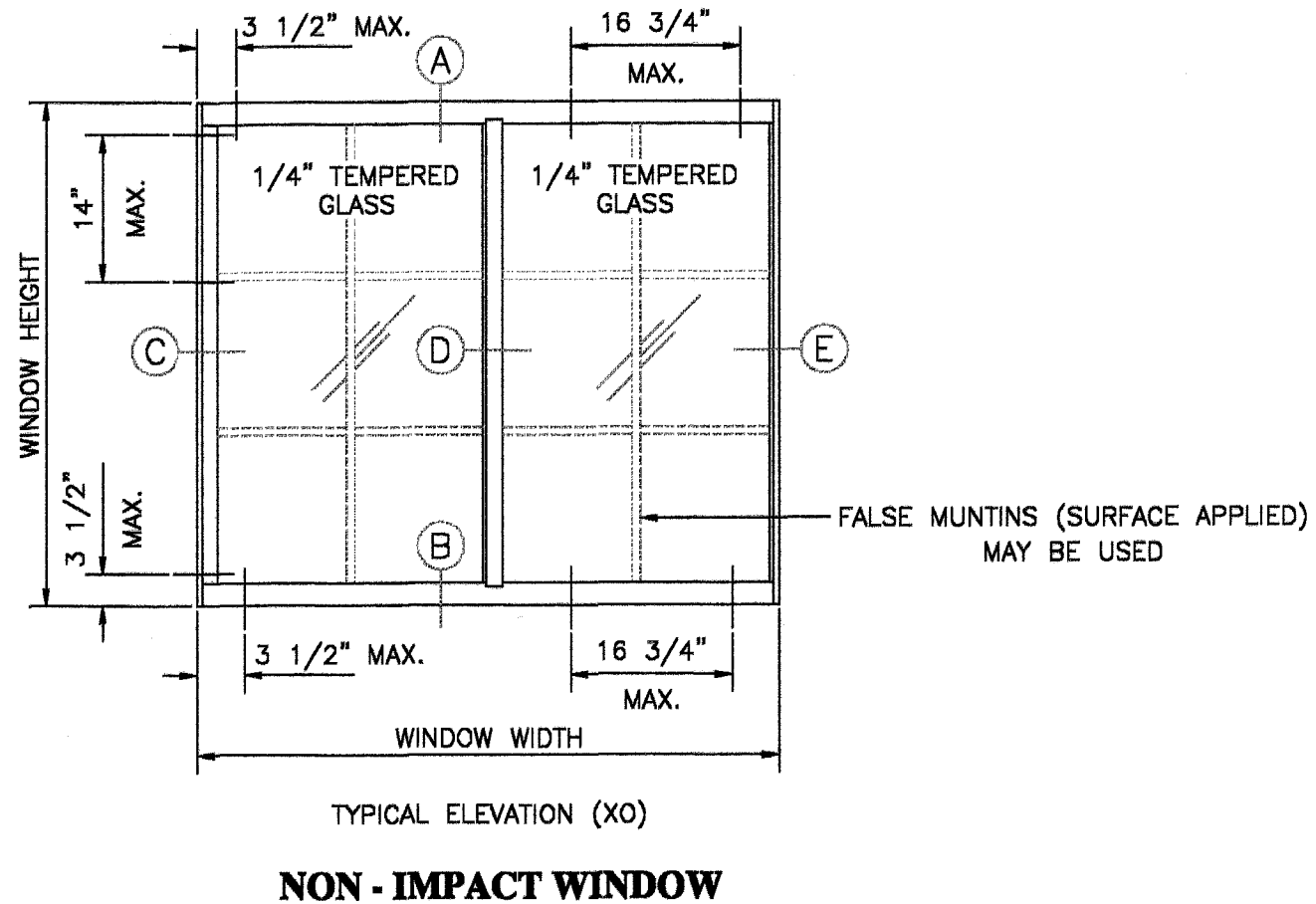
F. OTHER

1. Notice of Acceptance No. **99-0909.05** Sunshine Windows Manufacturing, Inc., Series 1650 Aluminum Horizontal Sliding Window, approved on 3/17/00 and expiring on 3/17/03.


Jaime Eisen, P.E.
Product Control Examiner
NOA No 02-1216.07
Expiration Date: March 17, 2008
Approval Date: February 27, 2003

DESIGN PRESSURE CHART - PSF									
SERIES 1650 ALUMINUM HORIZONTAL SLIDING WINDOW (XO)									
1/4" TEMPERED GLASS									
WINDOW DIMENSION				ANCHOR SCHEDULE		HURRICANE PROTECTION IS REQUIRED			
						1 3/4" SILL		3" SILL	
WIDTH	HEIGHT	PER HEAD & SILL	PER JAMB	EXT.	INT.	EXT.	INT.		
STANDARD SIZES	26 1/2"	26"	3	3	53.3	474.0	83.3	474.0	
	37"		53.3		262.2	83.3	262.2		
	53 1/8"		4		53.3	207.3	83.3	207.3	
	74"		6		53.3	203.7	83.3	203.7	
	26 1/2"	38 3/8"	3	4	53.3	327.1	83.3	327.1	
	37"		3		53.3	237.7	83.3	237.7	
	53 1/8"		4		53.3	164.4	83.3	164.4	
	74"		6		53.3	151.8	83.3	151.8	
	37"	50 5/8"	3	5	53.3	196.5	83.3	196.5	
	53 1/8"		4		53.3	150.7	83.3	150.7	
	74"		6		53.3	125.5	83.3	125.5	
	37"	63"	3	5	53.3	150.6	83.3	150.6	
	53 1/8"		4		53.3	112.6	83.3	112.6	
	74"		6		53.3	90.0	83.3	90.0	
	MODULAR SIZES	24"	24"	3	3	53.3	582.4	83.3	582.4
		36"		3		53.3	285.0	83.3	285.0
48"		4		53.3		251.6	83.3	251.6	
60"		5		53.3		235.0	83.3	235.0	
72"		6		53.3		225.1	83.3	225.1	
24"		36"	3	4	53.3	380.0	83.3	380.0	
36"			3		53.3	251.5	83.3	251.5	
48"			4		53.3	198.9	83.3	198.9	
60"			5		53.3	176.8	83.3	176.8	
72"			6		53.3	164.5	83.3	164.5	
36"		48"	3	4	53.3	198.9	83.3	198.9	
48"			4		53.3	173.5	83.3	173.5	
60"			5		53.3	151.1	83.3	151.1	
72"			6		53.3	138.0	83.3	138.0	
36"		60"	3	5	53.3	163.4	83.3	163.4	
48"			4		53.3	129.4	83.3	129.4	
60"			5		53.3	110.1	83.3	110.1	
72"			6		53.3	98.1	83.3	98.1	

BASED ON FTL-2353 DATED 6-15-99
 TEST SIZE= 74" X 63" (XO)
 TEST LOADS= +135.0 -135.0 PSF
 DESIGN LOADS= +90.0 -90.0 PSF
 CYCLIC WIND LOAD TEST=+90.0 -90.0 PSF
 WATER INFILTRATION TEST= 8.0 AND 12.5 PSF
 TESTED GLASS= 1/4" TEMPERED



NOTE:
 FOR NUMBER OF ANCHORS REQUIRED FOR EACH UNIT SIZE REFER TO ANCHOR SCHEDULE COLUMN IN THE DESIGN PRESSURE CHART

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 02-1216.07
 Expiration Date 03/17/08
 By [Signature]
 Miami Product Control
 Division

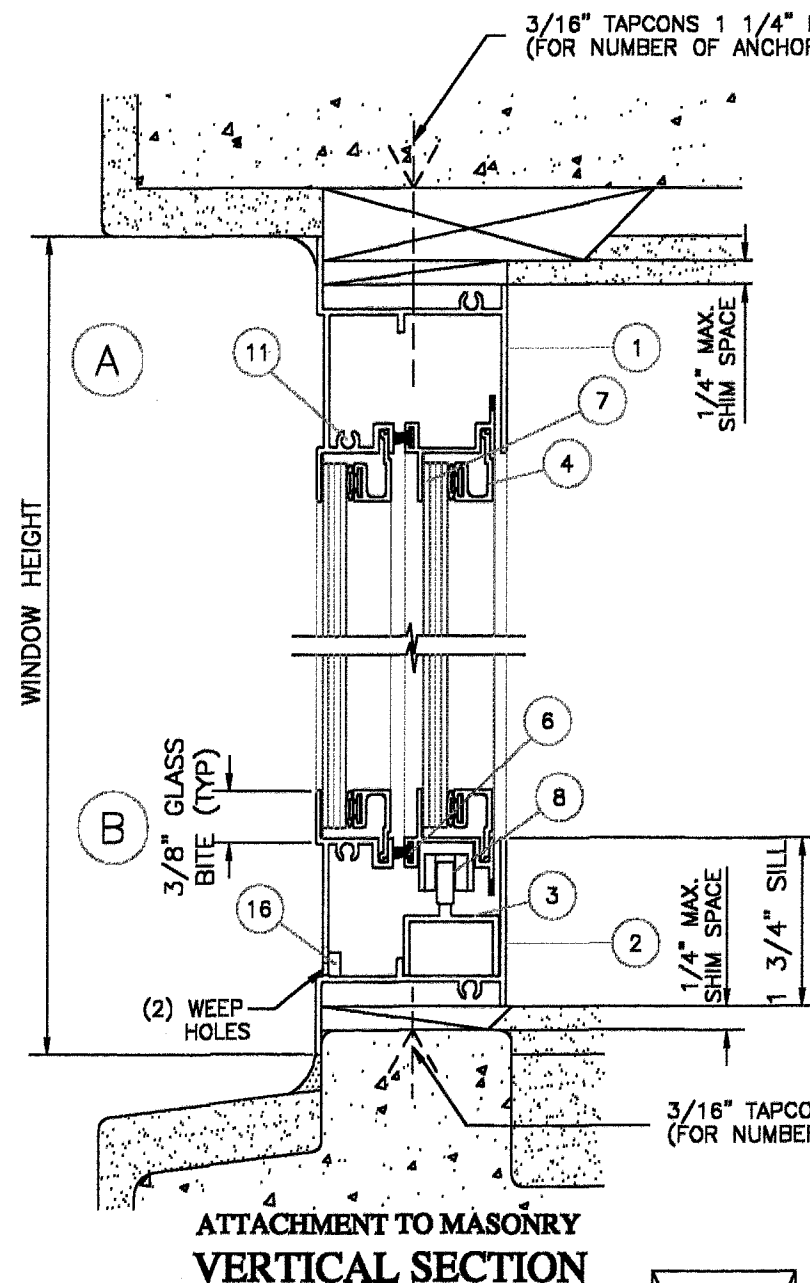
[Signature]
 1-12-03
 FRANCISCO HERNANDEZ
 FLORIDA PE # 51393

Sunshine Windows
 Manufacturing, Inc.
 1745 W. 33rd Place
 Hialeah, Florida 33012
 Ph: (305)384-9952
 Fax: (305)828-5118

FRANCISCO HERNANDEZ P. E.
 Structural Engineering
 351 NW 82nd AVE #1118
 Miami, Florida 33126
 Phone (305) 266 8670
 Fax (305) 266 3427

**SERIES 1650 ALUMINUM
 HORIZONTAL SLIDING WINDOW (XO)
 1/4" TEMPERED GLASS**

Drawn By: MH
 Date: 8-16-99
 Scale: 1/2"=1'
 Revision: 1-07-03
 Revision: _____
 DRAWING NO.
 HS99-04T
 SHEET
 1 OF 3



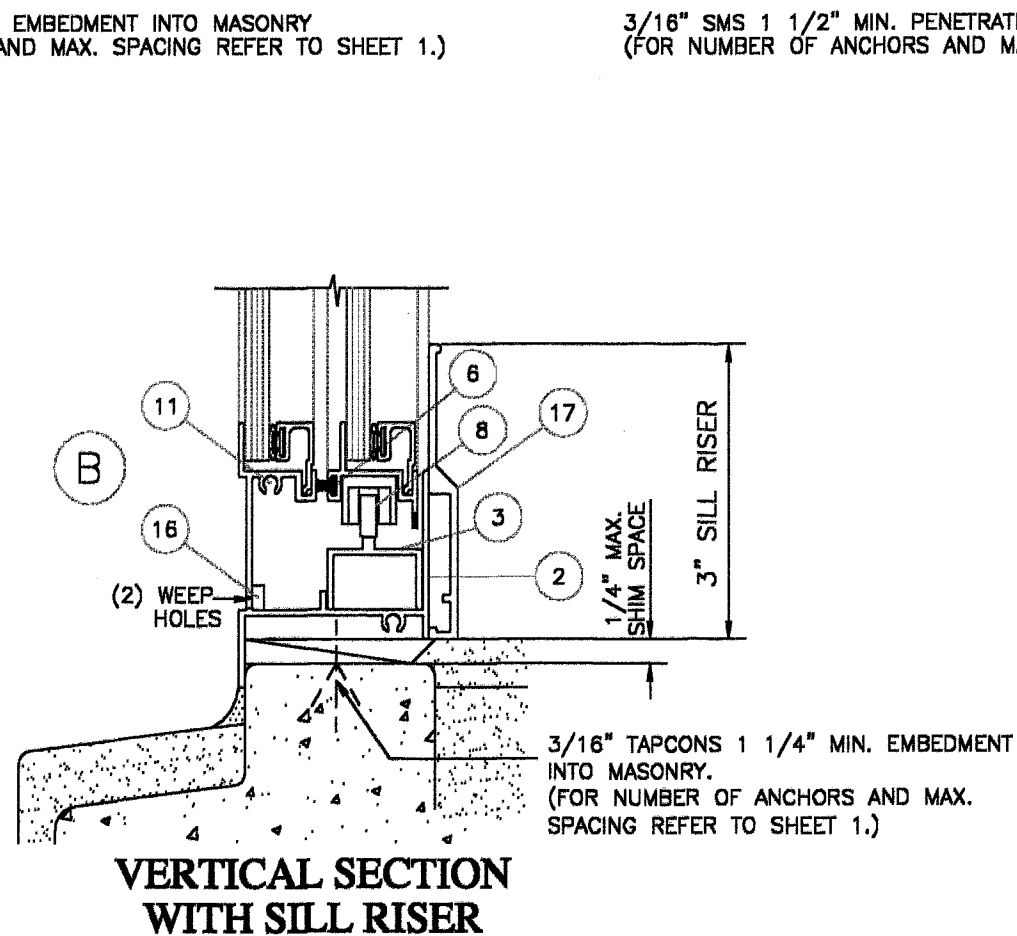
GLAZING:

MATERIAL: 1/4" TEMPERED GLASS

METHOD:

USE ADHESIVE BEDDING COMPOUND AND GLAZING FOAM TAPE ON EXTERIOR. EXTRUDED ALUMINUM SNAP ON GLAZING BEAD WITH VINYL BULB ON INTERIOR. GLAZING BEAD WAS FASTENED TO FRAME IN TEST UNIT WITH No. 8 BY 1" FHMS TWO AT EACH HORIZONTAL BEAD AND THREE AT EACH VERTICAL BEAD IN TEST UNIT

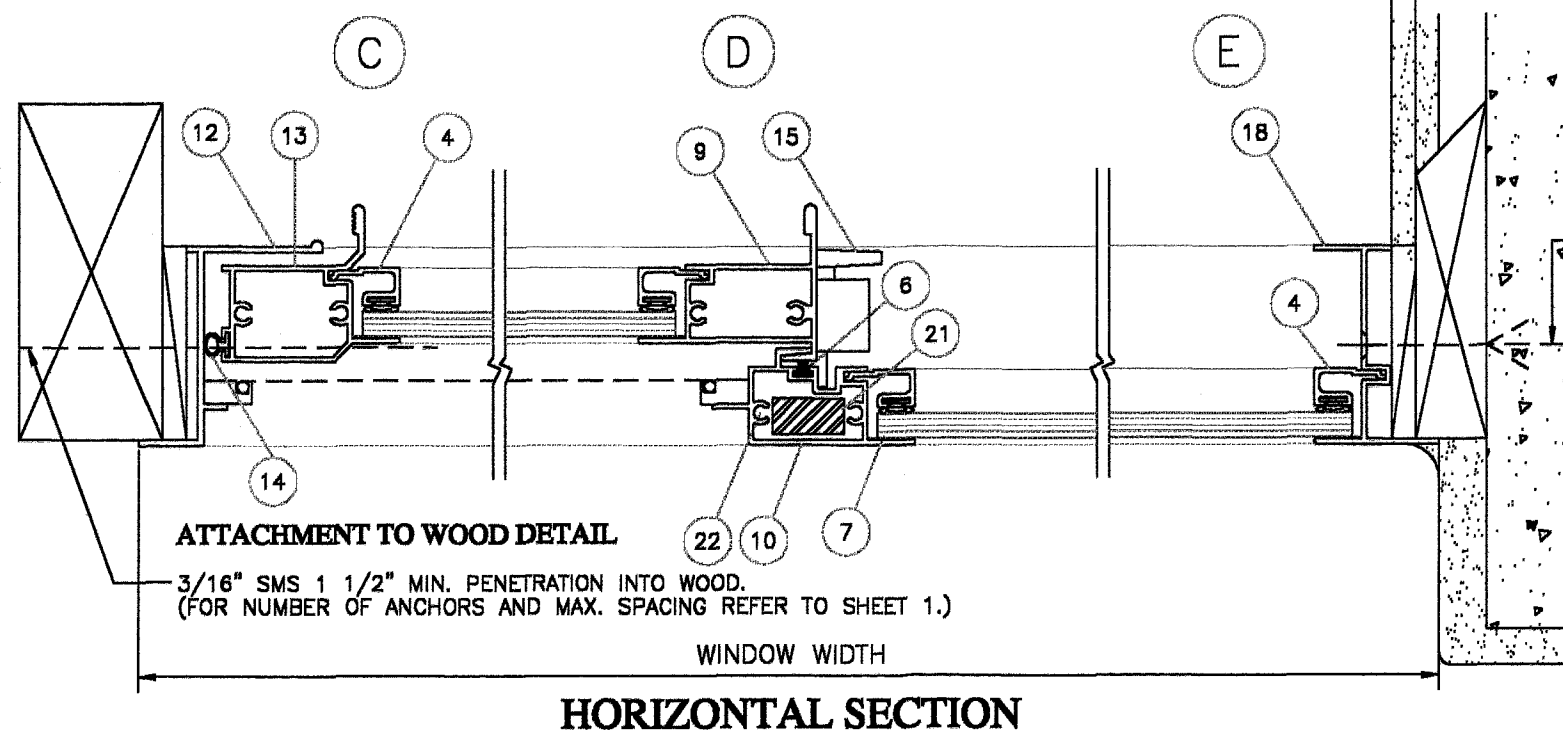
WOOD BUCKS NOT BY SUNSHINE WINDOWS MUST SUSTAIN IMPOSED LOADS BY GLAZING SYSTEM.



3/16" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 1.)

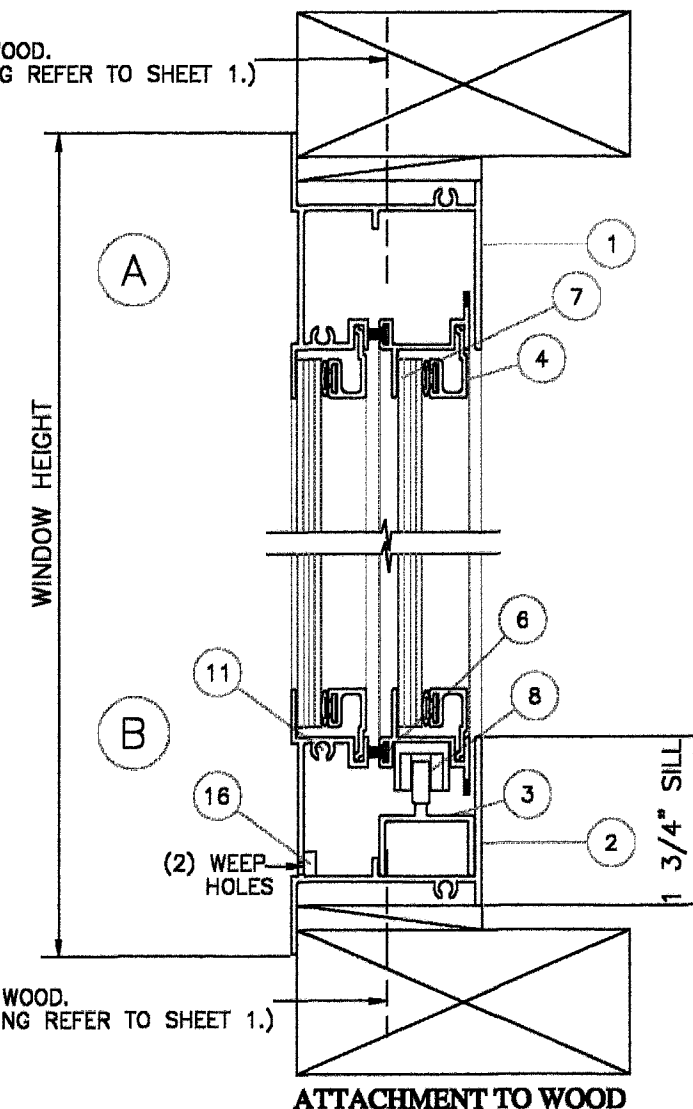
3/16" TAPCONS 1 1/4" MIN. EMBEDMENT INTO MASONRY.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 1.)

3/16" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 1.)



ATTACHMENT TO WOOD DETAIL

3/16" SMS 1 1/2" MIN. PENETRATION INTO WOOD.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 1.)



PRODUCT RENEWED

as complying with the Florida Building Code
Acceptance No. 02-1216.07
Expiration Date 03/17/08

By *[Signature]*
Miami Dade Product Control Division

ATTACHMENT TO MASONRY DETAIL

3/16" TAPCONS 1 1/4" MIN. EMBEDMENT INTO MASONRY.
(FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO SHEET 1.)

[Signature]
1-12-03

FRANCISCO HERNANDEZ
FLORIDA PE # 51393

Sunshine Windows
Manufacturing, Inc.

1745 W. 33rd Place
Hialeah, Florida 33012
Ph: (305) 364-9952
Fax: (305) 828-5118

FRANCISCO HERNANDEZ P.E.
Structural Engineering
351 NW 82nd AVE #1118
Miami, Florida 33126
Phone (305) 266 8670
Fax (305) 266 3427

SERIES 1650 ALUMINUM
HORIZONTAL SLIDING WINDOW (X0)
1/4" TEMPERED GLASS

Drawn By: MH

Date: 8-16-99

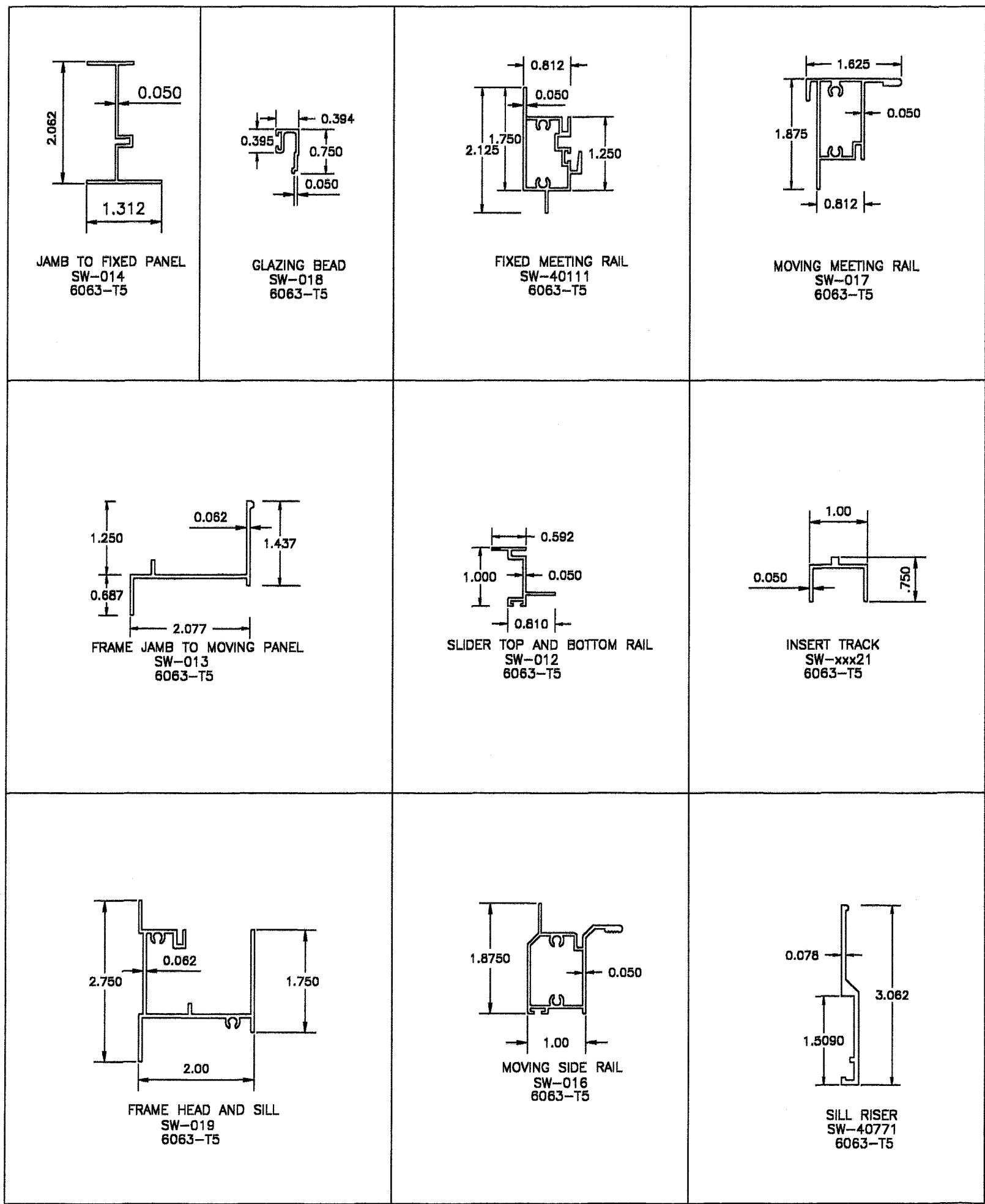
Scale: 1/2" = 1"

Revision: 1-07-03

Revision:

DRAWING NO.
HS99-04T

SHEET
2 OF 3



MATERIAL LIST				
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	SW-019	1	FRAME HEAD	6063-T5
2	SW-019	1	FRAME SILL	6063-T5
3	SWxxx21	1	INSERT TRACK	6063-T5
4	SW-018	AS RQD	GLAZING BEAD	6063-T5
5	SW-012	2	SLIDER TOP/BOTTOM RAIL	6063-T5
6	SW3019	AS RQD	FIN SEAL PILE	FELT
7	SW1520	AS RQD	GLAZING TAPE	FOAM
8	SW321W	2	WHEEL	BRASS
9	SW-017	1	MOVING MEETING RAIL	6063-T5
10	SW40111	1	FIXED MEETING RAIL	6063-T5
11	SW-AS	AS RQD	ASSEMBLY SCREWS	# 8 X 1" SMS.
12	SW-013	1	JAMB TO MOVING PANEL	6063-T5
13	SW-016	1	MOVING SIDE RAIL	6063-T5
14	SW3257	AS RQD	WEATHER STRIP BULB	VINYL
15	SW-667	AS RQD	LATCH	ZINC
16	SW-S10	2/SILL	RETICULATED FILTER	FOAM
17	SW40771	1	SILL RISER	6063-T5
18	SW-014	1	JAMB TO FIXED PANEL	6063-T5
21	SW-STL	1	3/8" X 3/4" FLAT BAR	STEEL
22	SW-AS	4	ASSEMBLY SCREWS	# 8 X 2 1/2" SMS.

PRODUCT RENEWED
as complying with the Florida
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By *[Signature]*
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Division

[Signature]
1-12-03
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1/4" TEMPERED GLASS

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Scale: 1/2"=1"
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Revision:

DRAWING NO.
HS99-04T

SHEET
3 OF 3